

What is claimed is:

1. An apparatus comprising:

optics adapted for focusing on a layer of an information storage media;

an optical pulse generator, coupled with the layer ^{through} the optics, for generating a train of optical pulses, wherein each pulse has a respective temporal placement within the train and has a respective pulse duration;

a generator of an analog duration control voltage having a variable voltage amount, coupled with the optical pulse generator for varying the respective pulse duration of each pulse in accordance with the amount.

2. An apparatus as in 1 further comprising a controller coupled the generator for variably controlling the amount, and in turn the respective pulse duration, in accordance with a WRITE STRATEGY that is based on a physical property of the layer of the information storage media.

3. An apparatus as in 1 further comprising a generator of an analog temporal placement control voltage having a variable voltage amount, coupled with the optical pulse generator for varying the respective temporal placement of each pulse in accordance with the amount.

4. An apparatus as in 3 further comprising a controller coupled the generator for variably controlling the amount of the analog temporal placement control voltage, and in turn the respective temporal placement, in accordance with a WRITE STRATEGY that is based on a physical property of the layer of the information storage media.

5. An apparatus as in 1 wherein the apparatus includes an analog duration

2 comparator having a pair of inputs and an output, wherein one of the inputs is
3 coupled with the generator of the analog duration control voltage.

1 6. An apparatus as in 5 further comprising a duration control capacitor coupled
2 with another of the inputs.

1 7. An apparatus as in 6 further comprising timing control logic coupled with the
2 output of the analog duration comparator, and further coupled with the
3 duration control capacitor for changing charge state thereof based upon the
4 output of the analog duration comparator.

1 8. An apparatus as in 3 wherein the apparatus includes an analog temporal
2 placement comparator having a pair of inputs and an output, wherein one of
3 the inputs is coupled with the generator of the analog temporal placement
4 control voltage.

1 9. An apparatus as in 8 further comprising a temporal placement control
2 capacitor coupled with another of the inputs.

1 10. An apparatus as in 9 further comprising timing control logic coupled with the
2 output of the analog temporal placement comparator, and further coupled
3 with the temporal placement control capacitor for changing charge state
4 thereof based upon the output of the analog temporal placement comparator.

1 11. An apparatus as in 3 further comprising:

2 an analog duration comparator having a pair of inputs and an output, wherein one of
3 the inputs is coupled with the generator of the analog duration control voltage;

4 an analog temporal placement comparator having a pair of inputs and an output,

5 wherein one of the inputs is coupled with the generator of the analog temporal
6 placement control voltage; and

7 a state device having: a set input coupled with the output of the analog temporal
8 placement comparator; a reset input coupled with the output of analog duration
9 comparator; and a state output coupled with the optical pulse generator for
10 determining the respective temporal placement and the respective pulse duration of
11 each pulse in the train of optical pulses.

12. A method comprising:

13 providing optics adapted for focusing on a layer of an information storage media and
an optical pulse generator, coupled with the layer ^{through} the optics;

14 generating a train of optical pulses, wherein each pulse has a respective temporal
15 placement within the train and has a respective pulse duration;

16 generating an analog duration control voltage having a variable voltage amount for
17 varying the respective pulse duration of each pulse in accordance with the amount.

18 13. A method as in 12 further comprising controlling the amount, and in turn the
19 respective pulse duration, in accordance with a WRITE STRATEGY that is
20 based on a physical property of the layer of the information storage media.

21 14. A method as in 12 further comprising generating an analog temporal
22 placement control voltage having a variable voltage amount, coupled with the
23 optical pulse generation for varying the respective temporal placement of
24 each pulse in accordance with the amount.

25 15. A method as in 14 further comprising controlling the amount of the analog

2
3
4

temporal placement control voltage, and in turn the respective temporal placement, in accordance with a WRITE STRATEGY that is based on a physical property of the layer of the information storage media.